



# ***SERVICE MANUAL***

MODEL TYPE: YS1044

## ***K2***

WEB ACCESS: <http://www.yorkville.com>

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**Quality and Innovation Since 1963**  
Printed in Canada



## IMPORTANT SAFETY INSTRUCTIONS



### INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

#### **CAUTION:**

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO  
NOT REMOVE COVER (OR BACK).

*NO USER SERVICEABLE PARTS INSIDE.*

**REFER SERVICING TO QUALIFIED  
SERVICE PERSONNEL.**

### INSTRUCTIONS RELATIVES AU RISQUE DE FEU, CHOC ÉLECTRIQUE, OU BLESSURES AUX PERSONNES

#### **AVIS:**

AFIN DE REDUIRE LES RISQUE DE CHOC ELECTRIQUE,  
N'ENLEVEZ PAS LE COUVERT (OU LE PANNEAU ARRIERE)

*NE CONTIENT AUCUNE PIECE  
REPARABLE PAR L'UTILISATEUR.*

**CONSULTEZ UN TECHNICIEN QUALIFIE  
POUR L'ENTRETIEN**

#### **Read Instructions**

The Owner's Manual should be read and understood before operation of your unit. Please, save these instructions for future reference.

#### **Packaging**

Keep the box and packaging materials, in case the unit needs to be returned for service.

#### **Warning**

When using electric products, basic precautions should always be followed, including the following:

##### **Power Sources**

Your unit should be connected to a power source only of the voltage specified in the owners manual or as marked on the unit. This unit has a polarized plug. Do not use with an extension cord or receptacle unless the plug can be fully inserted. Precautions should be taken so that the grounding scheme on the unit is not defeated.

##### **Hazards**

Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious personal injury and serious damage to the product. Use only with cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer.

The apparatus should not be exposed to dripping or splashing water; no objects filled with liquids should be placed on the apparatus.

Terminals marked with the "lightning bolt" are hazardous live; the external wiring connected to these terminals require installation by an instructed person or the use of ready made leads or cords.

Ensure that proper ventilation is provided around the appliance.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

##### **Power Cord**

The AC supply cord should be routed so that it is unlikely that it will be damaged. If the AC supply cord is damaged DO NOT OPERATE THE UNIT.

##### **Service**

The unit should be serviced only by qualified service personnel.

#### **Veillez Lire le Manuel**

Il contient des informations qui devraient être comprises avant l'opération de votre appareil. Conservez S.V.P. ces instructions pour consultations ultérieures.

#### **Emballage**

Conservez la boîte au cas où l'appareil devait être retourner pour réparation.

#### **Attention:**

Lors de l'utilisation de produits électrique, assurez-vous d'adhérer à des précautions de bases incluant celle qui suivent:

##### **Alimentation**

L'appareil ne doit être branché qu'à une source d'alimentation correspondant au voltage spécifié dans le manuel ou tel qu'indiqué sur l'appareil. Cet appareil est équipé d'une prise d'alimentation polarisée. Ne pas utiliser cet appareil avec un cordon de raccordement à moins qu'il soit possible d'insérer complètement les trois lames. Des précautions doivent être prises afin d'éviter que le système de mise à la terre de l'appareil ne soit désengagé.

##### **Risque**

Ne pas placer cet appareil sur un chariot, un support, un trépied ou une table instables. L'appareil pourrait tomber et blesser quelqu'un ou subir des dommages importants. Utiliser seulement un chariot, un support, un trépied ou une table recommandés par le fabricant ou vendus avec le produit. Suivre les instructions du fabricant pour installer l'appareil et utiliser les accessoires recommandés par le fabricant.

Il convient de ne pas placer sur l'appareil de sources de flammes nues, telles que des bougies allumées.

L'appareil ne doit pas être exposé à des égouttements d'eau ou des éclaboussures et qu'aucun objet rempli de liquide tel que des vases ne doit être placé sur l'appareil.

Assurez que l'appareil est fourni de la propre ventilation.

Les dispositifs marqués d'un symbole "d'éclair" sont des parties dangereuses au toucher et que les câblages extérieurs connectés à ces dispositifs de connexion extérieure doivent être effectués par un opérateur formé ou en utilisant des cordons déjà préparés.

##### **Cordon d'Alimentation**

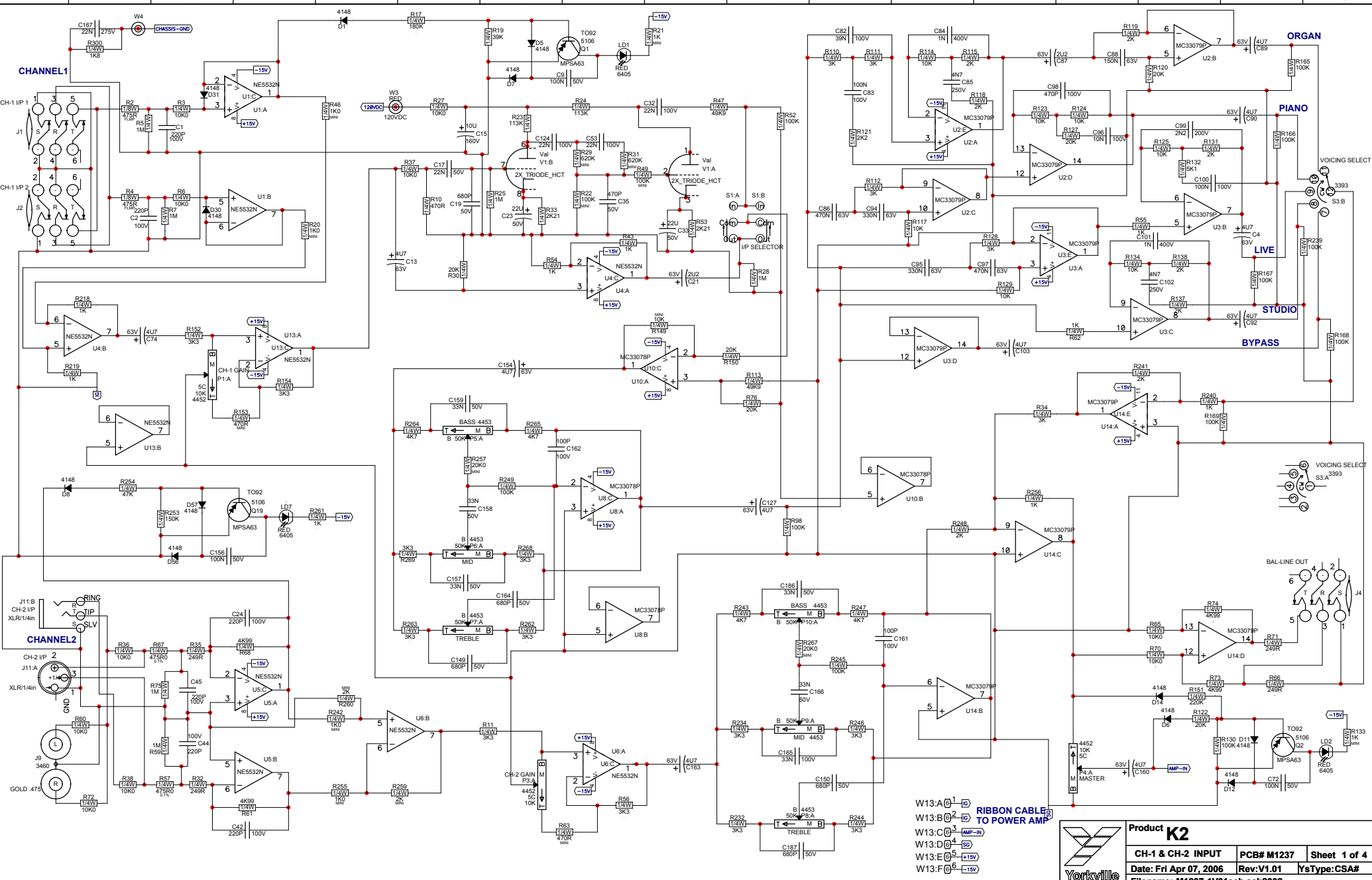
Évitez d'endommager le cordon d'alimentation. N'UTILISEZ PAS L'APPAREIL si le cordon d'alimentation est endommagé.

##### **Service**

Consultez un technicien qualifié pour l'entretien de votre appareil.

# K2 Parts List 7/11/2006

YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.
6554	BLUE 3MM LED 3V9 20MA TLHB440VISHAY	1	3498	1/4" JCK PCB MT HORZ	1	4627	1/2W 4K7 5% T&R RES	1
6405	RED 3MM LED 1V7 5MA BRT	5	3527	1/4" JCK PCB MT HORZ GOLD _S	1	4681	1.0W 4K7 5% T&R RES	2
6825	1N4148 75V 0A45 DIODE T&R	20	3918	1/4" JCK PCB MT HORZ SLIM W/SCREW	3	4827	1/4W 4K7 5% T&R RES	4
6438	1N4007 400V 1A0 DIODE T&R	7	3460	RCA DUAL PCB MT VERT GOLD .475"	1	4639	1/4W 4K99 1% T&R RES	6
6827	1N5402 200V 3A0 DIODE	4	3445	1/4"X1.25 PCB MT HORZ COMBO	1	6128	1/4W 4K99 1%MINI MF T&R RES	1
6434	6A2 200V 6A0 DIODE	4	3451	EYELET SMALL 0.089 OD PLATED	20	4893	1/4W 5K1 5% T&R RES	1
6733	BAT85 30V 0A2 DIODE SCHTKYT&R	10	3414	INTERNATIONAL PC MOUNT FUSEHOLDER	6	4862	1/4W 5K6 5% T&R RES	1
6822	1N4745A 16V0 1W0 ZENER 5% T&R	2	2449	1.0 AMP SLO-BLO .25X1.25 FUSE	2	4800	1/4W 10K0 1% T&R RES	13
6463	1N5251BRL 22V0 0W5 ZENER 5% T&R	1	2453	3.0 AMP SLO-BLO .25X1.25 FUSE	1	4829	1/4W 10K 5% T&R RES	13
6871	MC7915CT TO220 N 15V0 REG V2	1	8565	BAR HANDLE ALL METAL	1	4983	1/4W 10K 5%MINI T&R RES	1
6872	MC7815CT TO220 P 15V0 REG V1	1	8604	10-32 T NUT	6	4773	1/4W 12K1 1% T&R RES	1
5101	BC550C TO92 NPN TRANSISTOR T&R	3	7286	.8R 30W 4.75"TWEEETER	1	4885	1/4W 20K 5% T&R RES	9
5102	BC560C TO92 PNP TRANSISTOR T&R TB	3	3501	B52200F006 COMP WASH #4 SMALL	2	6123	1/4W 20K0 1%MINI MF T&R RES	2
5106	MPSA63 TO92 PNP TRNSISTR DARL T&RTA	3	3800	BELLY BUTTON #BB1 CORDS CANADA	2	4853	1/4W 39K 5% T&R RES	1
5119	2N5638 TO92 NCH JFET T&R TC	1	8609	VINYL CAP 0.250" X 1/2" BLK.	2	4834	1/4W 47K 5% T&R RES	3
5122	J109 TO92 NCH JFET T&R TC	1	8889	RUBBER GROMMET #2183-034-BLK	1	4803	1/4W 49K9 1% T&R RES	2
6787	BD237 TO126 NPN TRAN TG	1	3645	AC SOCKET RECEPTACLE WITH 0.250 TAB	1	4838	1/4W 100K 5% T&R RES	13
6788	BD238 TO126 PNP TRAN TG	1	3803	NYLON SECUR-A-TACH MINI PLASTIC TIE	1	6120	1/4W 100K 5%MINI T&R RES	2
6909	MJ21196 TO3 NPN TRANSISTOR TH	1	3810	4" NYLON CABLE TIE	10	4776	1/4W 113K 1% T&R RES	2
6910	MJ21195 TO3 PNP TRANSISTOR TH	1	3827	SQUARE BUMPER BUTTON BLACK	1	4839	1/4W 150K 5% T&R RES	1
6804	MC33079P IC QUAD OP AMP	4	8399	BASSMASTER KNOB, NICKEL PLATED	9	4849	1/4W 180K 5% T&R RES	1
6840	MC33078P IC DUAL OP AMP	3	8504	CORNER, 2 LEGS NOTCED LIP NICKEL	4	4841	1/4W 220K 5% T&R RES	1
6884	NE5532N IC DUAL OP AMP	6	8636	BUTTON KNOB FLAT BLACK	1	4874	1/4W 560K 5% T&R RES	2
6860	VTL5C8 OPTO-COUPLER	1	8400	BASSMASTER KNOB, NICKEL W/STOPPER	1	6106	1/4W 620K 5%MINI T&R RES	2
5404	.27P 100V 10%CAP T&R BEAD NPO	1	3428	8' 3/18 SJT AC LINE CORD REMOVABLE	1	4844	1/4W 1M 5% T&R RES	7
5406	.33P 50V 10%CAP BLK BEAD NPO	2	8267	SMALL TRAYNOR LOGO EMBOSSED ALUMIN.	1	3709	.7" 6C-26AWG RIB 1 W/LCK HDR 098	1
5410	100P 100V 10%CAP T&R BEAD NPO	3	3538	24 PIN BREAKAWAY LOCK .156	0.167	3640	.3" 8C-26AWG RIB 1/4" S&R 0.1"	0.5
5412	220P 100V 10%CAP T&R BEAD NPO	6	3549	TRIFURCON TERM .156	2	9814	12MM SANDED FERDELLA/MARANTI 4X8	15
5201	470P 100V 5%CAP T&R RAD CER.2"NPO	1	3558	TERM HOUSING 4 CIR .156/RAMP	1	8865	4-40 X 5/16 PAN PH MS JS500	2
5416	470P 50V 10%CAP T&R BEAD NPO	1	3662	.6 CIR WAFER W/LCK VT 0.1" GOLD	1	8741	4-40 X 1/2 PAN PH MS JS500	2
5420	680P 50V 10%CAP T&R BEAD NPO	6	3668	4 CIR CHASSIS MOUNT HDR .156	1	8827	4-40 X 1/2 FLAT PH TAPTITE JS500	2
5206	.1N 400V 5%CAP T&R RAD .2"FLM	2	3672	6 CIR CABLE HOLDER .098	1	8842	#4 X 5/16 PAN QUAD TYPE A JS500 BLK	4
5274	.2N2 200V 5%CAP T&R RAD CER.2"NPO	1	3903	PCB CONN 4 CIR BOTTOM .156	2	8832	6-32 X 1/4 PAN PH TAPTITE JS500	2
5209	.4N7 250V 5%CAP T&R RAD .2"FLM	2	5989	4 CIR CABLE HOLDER .098	2	8801	6-32 X 3/8 PAN PH TAPTITE JS500	6
6451	.4N7 250V 20%CAP BLK 'Y' 10MM AC	1	8701	4-40 KEPS NUT ZINC	6	8829	6-32 X 3/8 FLAT PH TAPTITE BO#4 HEA	30
5433	.5N6 50V 10%CAP T&R BEAD X7R	1	8760	6-32 KEPS NUT TIN PLATED	4	8747	6-32 X 1/2 HEX ND MS ZINC	10
5204	.10N 100V 10%CAP T&R RAD .2"FLM	1	8800	6-32 KEPS NUT ZINC	18	8761	6-32 X 1/2 PAN PHIL MS ZINC CLEAR	4
5301	.12N 50V 10%CAP T&R BEAD X7R	1	8898	1/4-20 CAGE NUT C79 98142027	4	8806	6-32 X 1/2 PAN PH TAPTITE JS500	5
5210	.22N 100V 10%CAP T&R RAD .2"FLM	3	8797	5/16-18 KEPS NUT JS500	1	8876	#6 X 1 1/2 PAN PH TYPE A JS500 BLK	4
5304	.22N 50V 10%CAP T&R BEAD X7R	1	3823	TO-220 THERMO PAD SMALL HOLE	2	8722	#8 X 1" PAN QUAD TYPE AB B/O	15
6435	.22N 275V 20%CAP BLK 'X2' 15MM AC	2	3850	TO-220 PLASTIC TRANSISTOR INSULATOR	2	8734	#10 X 1/2 PAN PH TYP A BRITE NICKEL	8
5222	.33N 100V 10%CAP T&R RAD .2"FLM	1	3916	TO3 SIL-PAD REPLACES MICA	2	8756	#10 X 3/4 PAN PH TYPE A BLACK OXIDE	24
5306	.33N 50V 10%CAP T&R BEAD X7R	5	4022	ELASTOMER PAD - 2-TO218 / 4-TO220	1	8786	10-32 X 1 1/4 PAN QD MS JS500 BLACK	4
5223	.39N 100V 10%CAP T&R RAD .2"FLM	1	4597	22AWG STRAN TC WIR JMP	26	8770	1/4-20 X 1 5/16 TRUSS PH MS JS500	4
5310	.68N 50V 10%CAP T&R BEAD X7R	2	4599	22AWG SOLID SC WIR T&R JMP	66	8733	5/16-18X2-1/2 GRD 5 HEX BOLT JS500	1
5212	100N 63V 5%CAP T&R RAD .2"FLM	24	5299	24AWG SOLID SC WIR RAD JMP	2	8608	NYLON SPACER .200 OD .145 ID .110 L	4
5228	100N 100V 5%CAP T&R RAD .2"FLM	2	4719	5.0W 0R18 5% BLK RES	2	8866	#6 NYLON SPACER OD.250XID.140X.187	5
5314	100N 50V 10%CAP T&R BEAD X7R	3	2006	1.0W 1R 5%FLAME PROOF T&R RES	2	3751	SNAP IN 5/16 SPACER RICCO	7
5229	150N 63V 10%CAP T&R RAD .2"FLM	1	4866	1/4W 4R7 5% T&R RES	2	7464	4.5"8R 30WPGM SPEAKER SEALED BACK	1
5318	220N 50V 10%CAP T&R BEAD X7R	1	5012	15.5W 8R2 5% BLK RES	1	7462	10" 2R 170W WOOFER POLY/RUB SRND	1
5233	330N 63V 5%CAP T&R RAD .2"FLM	4	4612	1/2W 18R 5% T&R RES	1	8818	3/4 OD X 3/8 ID X .080 THICK WASHER	1
5234	470N 63V 10%CAP T&R RAD .2"FLM	3	4812	1/4W 18R 5% T&R RES	1	3511	#6 FLAT WASHER NYLON	4
5255	.1U 63V 20%CAP T&R RAD .2"EL	1	4618	1/2W 22R 5% T&R RES	3	8817	#10 FLAT WASHER FOR 3/16" BOLT	4
5256	.1U 63V 5%CAP T&R RAD .2"FLM	4	4817	1/4W 47R 5% T&R RES	2	3393	5POS 2S NONSHORTING HORZ ROT SWT	1
5257	.2U2 63V 20%CAP T&R RAD .2"EL	2	4912	1/4W 75R 5% T&R RES	1	3425	DPDT PUSH SW PCMT BREAK B4 MAKE	1
5258	.4U7 63V 20%CAP T&R 8X7MM .2"EL	2	4852	1/4W 100R 5% T&R RES	1	3698	SPST ROKR SW QUIK 180" AC PWR BL/BL	1
5933	.4U7 100DC 10%CAP BLK RAD POLYE FLM	1	4659	1/2W 150R 5% T&R RES	6	3399	THERMO/BRKR-N/CLOSED OPEN@96C	1
5259	.4U7 63V 20%CAP T&R RAD .2"EL	9	4859	1/4W 150R 5% T&R RES	2	3732	9 PIN PC MOUNT TUBE SOCKET BE	1
5960	.6U8 140AC 10%CAP BLK RAD POLYP FLM	1	4770	1/4W 249R 1% T&R RES	4	12AX7B	12AX7 DUAL TRIODE PREAMP TUBE	1
5629	.10U 160V 20%CAP BLK 10X13MM EL	1	4736	5.0W 390R 5% BLK RES	1	CH1339	K4,K2 120V 60HZ TRD	1
5945	.10U 63V 20%CAP T&R RAD .2"EL	1	4872	1/4W 390R 5% T&R RES	1			
5631	.22U 50V 20%CAP T&R 6X7MM .2"EL	2	4821	1/4W 470R 5% T&R RES	1			
5610	220U 160V 20%CAP BLK 16X36MM EL	3	4980	1/4W 470R 5%MINI T&R RES	2			
5621	470U 63V 20%CAP BLK 12X25MM EL	2	2028	1/8W 475R 1%FLAME PROOF T&R RES	2			
5635	1000U 35V 20%CAP RADIAL ELECT BUL	2	5015	1/4W 475R0 0.1% *** T&R RES	2			
5616	3300U 50V 20%CAP BLK 18X35MM EL	2	4726	5.0W 1K 5% BLK RES	2			
4452	.10K 5C R/A 12MM 4PIN HORZ P40	3	4823	1/4W 1K 5% T&R RES	14			
4454	.10K 1B LIN 9.5MM HORIZONTAL P41	1	4981	1/4W 1K 5%MINI T&R RES	2			
4453	.50K B LIN 12MM 4PIN HORZ DT P40	6	6110	1/4W 1K0 1%MINI MF T&R RES	4			
4529	470R TRIM POT	1	4824	1/4W 1K5 5% T&R RES	1			
711	30 X 50 X 1.5MIL PLASTIC BAG	1	4825	1/4W 1K8 5% T&R RES	1			
3976	SNAP ON 0.843" INSULATING BUSHING	1	4808	1/4W 2K 5% T&R RES	8			
3765	2000UH COIL 20AWG R000 IRN CORE	1	6113	1/4W 2K 5%MINI T&R RES	2			
8521	RUBBER BUMPER WITH WASHER VERYSMALL	12	4919	1/4W 2K05 1%-NO SUBS- T&R RES	1			
3463	CLIP 110X020 18-22AWG DISCO/INSL	1	4847	1/4W 2K2 5% T&R RES	2			
3478	CLIP 205/187X032 18-22AWG DISCO/INS	2	4714	1/4W 2K21 1% T&R RES	2			
3489	CLIP 250X032 18-22AWG DISCO/INSL	11	4805	1/4W 2K87 1% T&R RES	1			
3491	CLIP 205/187X020 18-22AWG DISCO/INS	5	4804	1/4W 3K 5% T&R RES	5			
3601	RING TERMINAL 16AWG WIRE & #8 SCREW	3	4826	1/4W 3K3 5% T&R RES	12			
3682	250 MALE PCB TAB REEL	14	4774	1/4W 4K12 1% T&R RES	3			



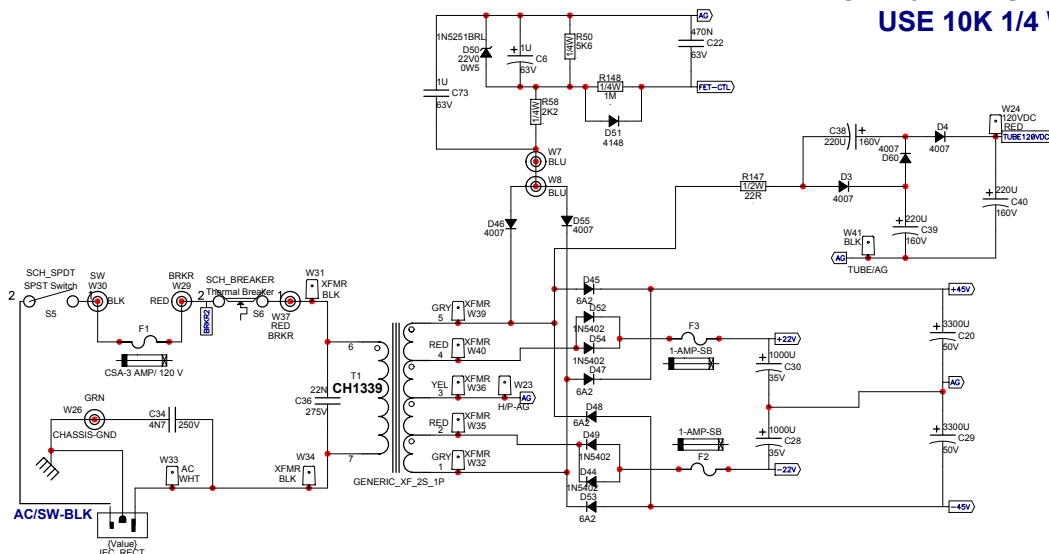
W13:A @ 1  
W13:B @ 2  
W13:C @ 3  
W13:D @ 4  
W13:E @ 5  
W13:F @ 6

RIBBON CABLE  
TO POWER AMP

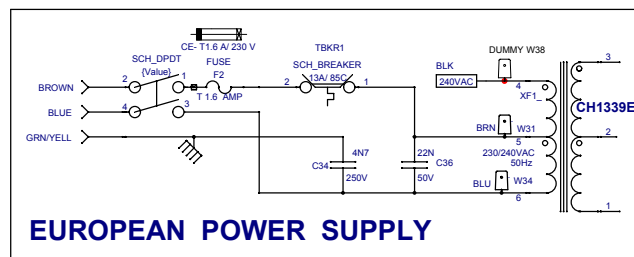
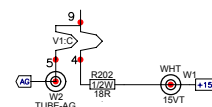
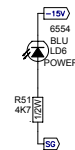
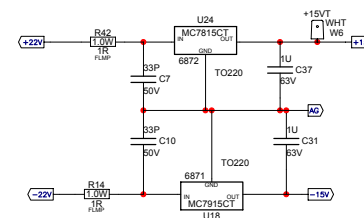


Product <b>K2</b>		
CH-1 & CH-2 INPUT	PCB# M1237	Sheet 1 of 4
Date: Fri Apr 07, 2006	Rev: V1.01	YsType: CSA#
Filename: M1237-1V01sch.sch2002		

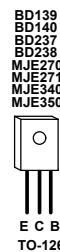
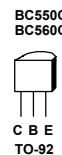
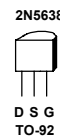
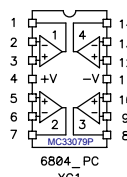
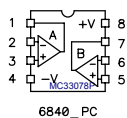
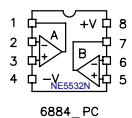
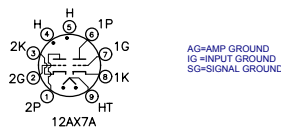
**WARNING! 120V DC IS PRESENT BETWEEN C40 TO GROUND DISCHARGE BEFORE SERVICING  
USE 10K 1/4 W ACROSS W24 AND W41 TO DISCHARGE.**



# NORTH AMERICAN POWER SUPPLY

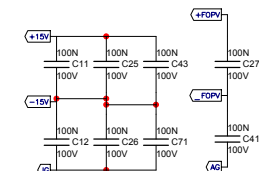
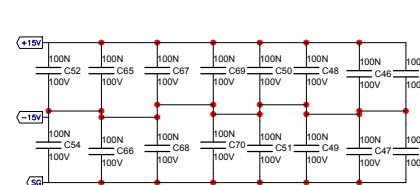


## EUROPEAN POWER SUPPLY

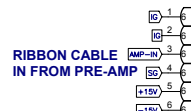


M1237-01.PCB_DATABASE_HISTORY			
MODEL(S):-		K2	
#	DATE	VER#	DESCRIPTION OF CHANGE
1	FEB-27-2006	V1.00	FIRST RELEASE
2	APR-07-2006	V1.01	PC#7089;AH:R44 4829 10K -> 4639 4K999, R48 10K 4829 ->
3			4K99 4639, R130 20K 4885 -> 4838 100K,CHANGE HPF FROM
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

POT LIST				
MODEL(S):- K2				
REF	FUNCTION	PART#	KNOB	{NEW}
P1	CH-1 GAIN	4452	8399	N
P3	CH-2 GAIN	4452	8399	N
P5	BASS	4453	8399	N
P6	MID	4453	8399	N
P7	TREBLE	4453	8399	N
P10	BASS	4453	8399	N
P9	MID	4453	8399	N
P8	TREBLE	4453	8399	N
P4	MASTER	4452	8399	N
P2	MONITOR GAIN	4454	9622	N
S3	VOICING SW	3393	8400	N
R	F	P	K	N



Product <b>K2</b>		
POWER SUPPLY	PCB# M1237	Sheet 2 of 4
Date: Fri Apr 07, 2006	Rev: V1.01	YsType: CSA#
Filename: M1237-1V01sch.sch2002		



AMP	PCB# M1237	Sheet 4 of 4
Date: Fri Apr 07, 2006	Rev:V1.01	YsType:CSA#
Filename: M1237-1V01sch sch2002		





M1237-01.PCB_DATABASE_HISTORY			
MODEL(S):- K2			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	FEB-27-2006	V1.00	FIRST RELEASE:PC#7086 R52 #4840 33K->#4838 100K
2	APR-07-2006	V1.01	PC#7089:AH:R44 4829 10K --> 4639 4K99, R48 10K 4829 --> 4K99 4639, R130 20K 4885 --> 4838 100K,CHANGE HPF FRQ
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N



SEE LAYOUT DIAGRAM



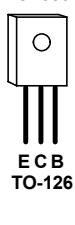
# PRODUCTION NOTES

- 1- ADD THERMAL JOINT COMPOUND (GOOP) BETWEEN Q9 AND Q13;  
Q10 AND Q11 COVER WITH VINYL CAP (8609) AND RTV.
- 2- ADD RTV TO ALL CAPACITORS.

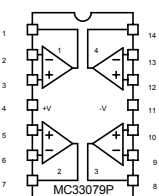
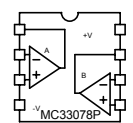
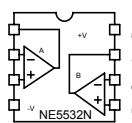
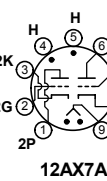
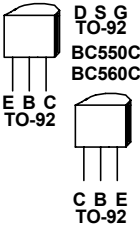
M1237-01 DRILL HISTORY				
MODEL(S):- K2				
#	DATE	VER#	DESCRIPTION OF CHANGE	
1	D	V	N	
2	D	V	N	
3	D	V	N	
4	D	V	N	
5	D	V	N	
6	D	V	N	
M1237-01 PENDING CHANGES				
MODEL(S):- K2				
#	PC#	PENDING CHANGE		
1	PC	X		
2	PC	X		
3	PC	X		
4	PC	X		
5	PC	X		
6	PC	X		
*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY				
POT LIST				
MODEL(S):- K2				
REF	FUNCTION	PART#	KNOB	{NEW}
P1	CH-1 GAIN	4452	8399	N
P3	CH-2 GAIN	4452	8399	N
P5	BASS	4453	8399	N
P6	MID	4453	8399	N
P7	TREBLE	4453	8399	N
P10	BASS	4453	8399	N
P9	MID	4453	8399	N
P8	TREBLE	4453	8399	N
P4	MASTER	4452	8399	N
P2	MONITOR GAIN	4454	9922	N
S3	VOICING SW	3393	8400	N
R	F	P	K	N

## LEAD/PIN REFERENCE

BD139  
BD238  
BD140  
BD237  
MJE271  
MJE270  
MJE340  
MJE350

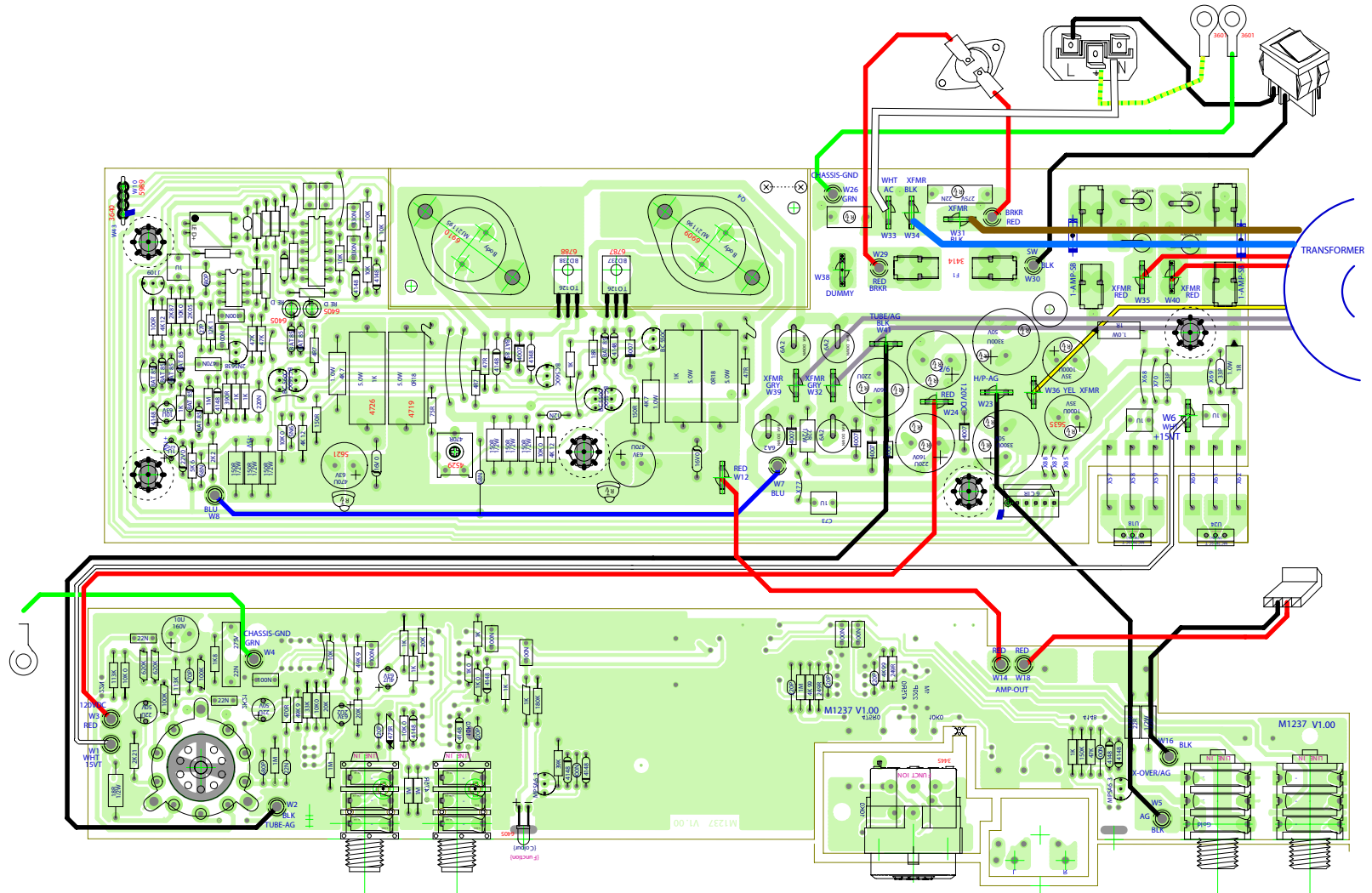


2N5401  
2N5551  
MPSA06  
MPSA43  
MPSA56  
MPSA63

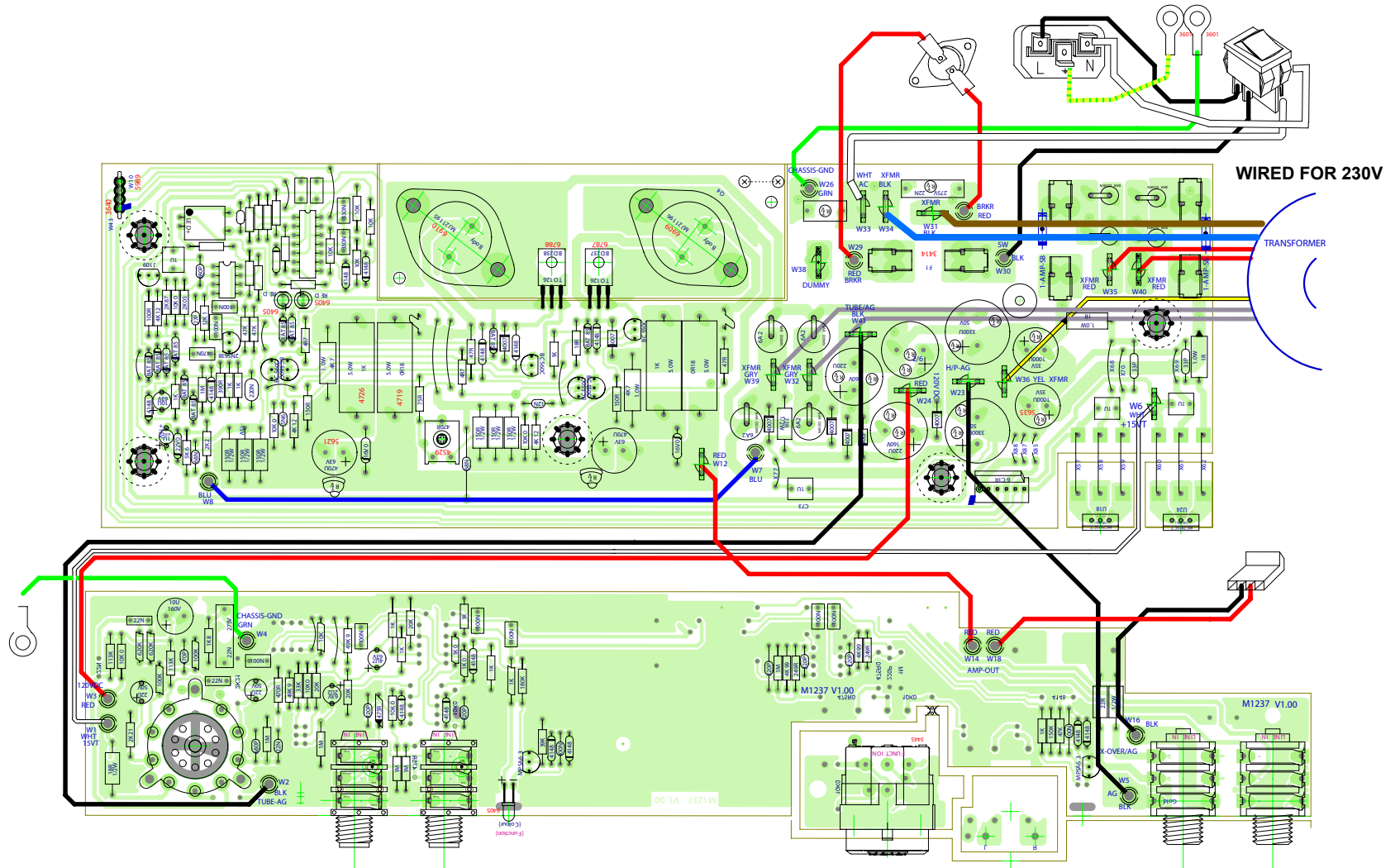




K2 N.A



**K2 CE**



**K2**

